

# INTERNATIONAL SEARCH REPORT

PCT/IB2004/050840

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 C09K11/06 H05B33/14

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C09K H05B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, COMPENDEX, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	W.S. BACSA ET.AL.: "Blue organic light emitting diodes based on bicarbazyle derivatives: device stability and multilayer configuration" JOURNAL OF APPLIED PHYSICS, vol. 84, no. 10, 1998, pages 5733-5738, XP002297899 the whole document	1-10
X.	S.-D. JUNG ET.AL.: "Change in the emission color and the quantum efficiency enhancement in urethane-substituted polythiophene / tris(8-hydroxyquinoline)aluminium double layer light-emitting devices" SYNTHETIC METALS, vol. 100, 1999, pages 223-231, XP002297900 the whole document	1-10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

24 September 2004

Date of mailing of the international search report

08/10/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/026898 A1 (CHO JIN-HAN ET AL) 6 February 2003 (2003-02-06) pages 2-4; example 11b	1-10
A	F. NEVE ET.AL.: "Light-emitting cyclopalladated complexes of 6-phenyl-2,2'-bipyridines with hydrogen-bonding functionality" ORGANOMETALLICS, vol. 21, 2002, pages 3511-3518, XP002297901 the whole document	1-10
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 10, 31 August 1999 (1999-08-31) & JP 11 144876 A (TORAY IND INC), 28 May 1999 (1999-05-28) abstract	1-10
A	R. ZHANG ET.AL.: "A new coumarin derivative used as emitting layer in organic light-emitting diodes" SYNTHETIC METALS, vol. 106, 1999, pages 157-160, XP002297902 the whole document	1-10

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Patent document cited in search report		Publication date	Patent family member(s)		Publication date
US 2003026898	A1	06-02-2003	KR	2003007024 A	23-01-2003
JP 11144876	A	28-05-1999	NONE		